PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 1690BMG FOR FURTHER A				
TOOODING	ACTION See Form PCT/IPEA/416			
International application No. International filing date 22.06.2004	Priority date (day/month/year) 25.06.2003			
International Patent Classification (IPC) or national classification and	IPC			
B41J29/48, B41J11/00	•			
Applicant				
TELECOM ITALIA S.P.A. ET AL.				
 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 				
2. This REPORT consists of a total of 4 sheets, including this cover sheet.				
3. This report is also accompanied by ANNEXES, compris				
a. Sent to the applicant and to the International Bureau) a total of sheets, as follows:				
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).				
 sheets which supersede earlier sheets, but we beyond the disclosure in the international ap Supplemental Box. 	which this Authority considers contain an amendment that goes plication as filed, as indicated in item 4 of Box No. I and the			
Supplemental box.				
sequence listing and/or tables related thereto in	indicate type and number of electronic carrier(s)) , containing a computer readable form only, as indicated in the Supplemental			
Box Relating to Sequence Listing (see Section 8	02 of the Administrative Instructions).			
4. This report contains indications relating to the following	tems:			
☐ Box No. I Basis of the opinion				
☑ Box No. I Basis of the opinion ☐ Box No. II Priority				
☐ Box No. II Priority				
 □ Box No. II Priority □ Box No. III Non-establishment of opinion with reg □ Box No. IV Lack of unity of invention 	ard to novelty, inventive step and industrial applicability			
 □ Box No. II Priority □ Box No. III Non-establishment of opinion with reg □ Box No. IV Lack of unity of invention □ Box No. V Reasoned statement under Article 350 	ard to novelty, inventive step and industrial applicability 2) with regard to novelty, inventive step or industrial			
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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/IT2004/000360

_	Box No. I Basis of the report		
1.	With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.		
	which is the language of a tr international search (und publication of the internation	slations from the original language into the following language, anslation furnished for the purposes of: er Rules 12.3 and 23.1(b)) tional application (under Rule 12.4) examination (under Rules 55.2 and/or 55.3)	
2.	With regard to the elements* of the international application, this report is based on (replacement sheets have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in report as "originally filed" and are not annexed to this report):		
	Description, Pages	·	
	1-10	as originally filed	
	Claims, Numbers		
	1-8	as originally filed	
•	Drawings, Sheets		
	1/4-4/4	as originally filed	
	☐ a sequence listing and/or an	y related table(s) - see Supplemental Box Relating to Sequence Listing	
3.	☐ The amendments have result the description, pages ☐ the claims, Nos. ☐ the drawings, sheets/figs ☐ the sequence listing (specially any table(s) related to see	s ecify):	
4.	had not been made, since they is Supplemental Box (Rule 70.2(c)) the description, pages the claims, Nos. the drawings, sheets/figs the sequence listing (specific any table(s) related to see	s ecify): equence listing <i>(specify)</i> :	
	* If item 4 applies, so	ome or all of these sheets may be marked "superseded."	

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/IT2004/000360

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1-8

1. Statement

Novelty (N)

Yes: Claims

No: Claims

Inventive step (IS)

Yes: Claims

No: Claims 1-8

Industrial applicability (IA)

Yes: Claims

1-8

No: Claims

2. Citations and explanations (Rule 70.7):

see separate sheet

PCT/IT2004/000360

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following documents:

D1: EP 1 231 070A D2: JP 2001 206 602A

The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claims 1 and 8 does not involve an inventive step in the sense of Article 33(3) PCT.

Document D1 regarded as being the closest prior art to the subject-matter of claims 1 and 8, discloses (the references in parentheses applying to this document):

A POS-printer for receipts made from a paper tape wound on a roll (S) placed in a housing (2), the printer being able to assume different positions, horizontal and vertical.

The printer has a paper-near-end detector with a sensor means (30) comprising two projecting elements (33A, 33B) for engaging the paper roll, respectively when the printer is in a first (horizonta) position, or in a second (vertical) position.

The subject-matter of claims 1 and 8 therefore differs from this known POS-printer in that the projecting elements engage a hole in a sprocket of the paper roll.

The problem to be solved by the present invention may therefore be regarded as determining the location of the paper-near-end detection.

The solution proposed in claims 1 and 8 of the present application cannot be considered as involving an inventive step (Article 33(3) PCT). D2 shows a paper-near-end sensor displaced in the inside of a hollow core part of the paper roll when the diameter of the paper roll becomes lower than a designated value. The skilled person would therefore regard it as a normal option to include this feature in the POS-printer described in document D1 in order to solve the problem posed.

Dependent claims 2-7 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of inventive step, see documents cited in the search report.